

WHAT IS CLAIMED IS:

1. A phase deficiency display device for a thermal magnetic type molded case circuit breaker provided with a bimetal, which is bendable when heat is applied thereto, and a shifter
5 coupled to an upper end of the bimetal and horizontally movable corresponding to a bending degree of the bimetal when over-current is applied thereto, the display device comprising:
a power source for supplying electric power;
a display connected to the power source for displaying a phase deficiency;
a stationary contactor electrically connected to the power source and having a stationary contact;
10 a movable contactor electrically connected to the display and having a movable contact, the movable contactor vertically movable and forming a circuit together with the power source and the display for displaying the phase deficiency state when the movable contact contacts with the fixed contact;
an interlock lever rotated according to a horizontal movement of the shifter;
15 a connection bar connected to the shifter and the interlock lever for transferring horizontal moving force of the shifter to the interlock lever; and
a latch lever installed adjacent to the interlock lever for restricting a movement of the movable contactor when normal current is applied and to release a restriction of the movable contactor when the phase deficiency occurs.
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2. The display device as claimed in claim 1, wherein the movable contactor is elastically supported by an elastic means in such a manner that the movable contactor is vertically biased in an upward direction.
- 25 3. The display device as claimed in claim 1, wherein the connection bar includes a first

protrusion provided at one end of the connection bar for inserting into the shifter, and a second protrusion provided at the other end of the connection bar for inserting into the connection lever.

4. The display device as claimed in claim 1, wherein the latch lever is provided at one end thereof with an engaging pin movable vertically, to which elastic force is applied, in such a manner that the latch lever is rotated together with the interlock lever by engaging the interlock lever with the engaging pin.

5. The display device as claimed in claim 1, wherein the display includes one of a lamp, a liquid crystal display, or a light emitting device.

6. The display device as claimed in claim 1, further comprising a buzzer generating an alarming sound when the movable contact contacts with the stationary contact due to the phase deficiency.